CLAIMS:

1.   A communications system comprising a first part and a second part, the first and second parts being connected so that a first user in one of the first and second parts can communicate with a second user in the other of the first and second parts, wherein at least said first user is able to move within the respective part of said system, said system further comprising a gateway for permitting communications between said first and second parts, said gateway comprising a register for storing information associating the said first and second users and for storing information relating to the current location of the first user so that information from the second user can be directed to first user.

2.   A communications system as claimed in claim 1, wherein when the location of the first user changes, the information relating to the new location is stored in the register of the gateway.

3.   A communications system as claimed in claim 1, wherein the first user is a mobile terminal which is in communication with a base station.

4.   A communications system as claimed in claim 3, wherein said base station is coupled to a respective network element and information relating to the said identity of said network element is stored in said register as the current location information of the first user.

5.   A communications system as claimed in claim 4, wherein an identifier allocated in the network element which is arranged to receive communications intended for said first user is stored in said register.

6.   A communications system as claimed in claim 5, wherein a gatekeeper element is arranged to control the updating of said register and the handover of said first user between base

stations and their respective network elements.

7.   A communications system as claimed in claim 6, wherein the gatekeeper element is defined by said second user as the initial destination during call setup and said gatekeeper is arranged to poll a plurality of network elements to determine the location of said first user.

8.   A communications system as claimed in claim 7, wherein said gateway is transparent during call set-up procedure.

9.   A communications system as claimed in claim 7, wherein after call set-up, information is forwarded directly from the gateway to the respective network element.

10.   A communications system as claimed in claim 8 wherein said gateway controls the updating of said register.

11.   A communications system as claimed in claim 1, wherein said system uses the internet protocol.

12.   A communications system as claimed in claim 1, wherein said register stores source and destination ports and addresses.

13.   A communications system as claimed in claim 12, wherein at least one of the source and destination addresses and ports are of the first and second user.

14.   A communications system as claimed in ~~claims 12 or 13,~~ claim 12 wherein at least one of the source and destination addresses and ports are of an intermediate network element between said gateway and a user.

15. A communications system as claimed in claim 1, wherein said gateway is arranged to check the source and destination of all information sent between the first and second users in said first and second parts and to permit the information to be passed through said gateway if the source and destination information matches the information stored in said register.

16. A communications system as claimed in claim 1, wherein said second user is a fixed user.

17. A communications system as claimed in claim 1, wherein said second user operates in accordance with the H.323 protocol.

18. A communications system as claimed in claim 1, wherein said first user operates in accordance with the GSM standard.

19. A gateway for use in a communications system comprising a first part and a second part, the first and second parts being connected so that a first user in one of the first and second parts can communicate with a second user in the other of the first and second parts, wherein at least said first user is able to move within the respective part of said system, said gateway being arranged in use between said first and second parts, said gateway comprising a register for storing information associating said first and second users and for storing information relating to the current location of the first user so that information from the second user can be directed to first user.

20. A communications system comprising a first part and a second part, the first and second parts being connected so that a first user in one of the first and second parts can communicate with a second user in the other of the first and second parts, said system further comprising a gateway element between said first and second parts, said gateway comprising a register for storing information associating said first and second users, wherein said gateway is arranged to check the source and destination of all information sent between the first and second users in said first

and second parts and to permit the information to be passed through said gateway if the source and destination information matches the information stored in said register.

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